IN THE CLAIMS:

1. (Original) Process for monitoring the quality of service of a communication through a communication network, said process being executed in a end-user terminal and comprising the steps of:
- establishing a session between a first end-user terminal and a second end-user terminal via a signaling plane using a session initiation protocol;
- monitoring the quality of service of the communication during said session;
- transmitting information representative of said quality of service during said session using said signaling plane, wherein the QoS information is transmitted within the header of a session initiation protocol message, so that all parties share the same information.

2. (Original) A process according to claim 1 wherein said information representative of said quality of service comprises signaling parameters and media transmission quality parameters.

3. (Original) A process according to claim 2 wherein said session is used for transmitting voice services through at least a first and a second proxy and that said signaling parameters include a parameter representative of the time taken between one invite is transmitted to said first proxy and said proxy forwards it to said second proxy.

4. (Original) A process according to claim 1 wherein said signaling parameters include a parameter which is representative of the time between one invite and the resulting ringing signal for this invite.

5. (Original) A process according to claim 1 wherein said session is used for transmitting voice services and that said quality of service comprises parameters representative of the quality of transmission of voice signals.

6. (Currently Amended) A process according to claim ~~4~~ <u>5</u> wherein the voice is transmitted through RTP and RTCP protocols and that said quality of service comprises parameters extracted from said RTCP protocol by an end-user process.

7. (Currently Amended) Process according to claim [[4]] <u>5</u> wherein said quality of service comprises parameters representative of the jitter of the voice transmission.

8. (Currently Amended) Process according to claim [[4]] <u>5</u> wherein said quality of service comprises parameters representative of the loss of packets in the voice transmission.

9. (Original) Process according to claim 1 wherein said session is used for transmitting video services and that said quality of service comprises parameters representative of the quality of transmission of video signals.

10. (Original) Process according to claim 1 wherein said first end-user communicates with a service in lieu of a second end-user.

11. (Original) Process according to claim 1 wherein said terminal is one of a personal computer, a Personal Document Assistant, a portable computer, a cellular telephone, a fixed telephone or a Universal Mobile Telecommunications System terminal.

13 12. (Currently Amended) Process for monitoring the quality of service of a communication through a communication network, said process being executed in a session endpoint and comprising the steps of:

- establishing a session between a first session endpoint and a second session endpoint via a signaling plane;

- measuring at at least one of the session endpoints the quality of service of the communication and/or the related signalling;

- transmitting QoS information representative of said measured quality of service in the header of the messages used in set-up or teardown of the session, so that all parties to the session receive said QoS information.

14 13. (Currently Amended) Process as claimed in claim 13 12 wherein at least one of the endpoints is a server for providing a telecommunications service.

15 14. (Currently Amended) Process as claimed in claim 13 12 wherein QoS information relating to signalling transactions in is included in a message used in set-up of the session.

16 15. (Currently Amended) Process as claimed in claim 13 12 wherein QoS information relating to transmission of a media data stream during the session is included in a protocol definition unit used in teardown of the session.

17 16. (Currently Amended) A process as claimed in claim 13 12 including processing QoS data measured within the end user terminal and/or extracted from received messages to produce displayable QoS parameters and displaying said parameters to a user via a user interface.

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18 17. (Currently Amended) An end user terminal comprising means to monitor QoS by:
- establishing a session between a first session endpoint and a second session endpoint via a signaling plane;
- measuring the quality of service of the communication and/or the related signalling;
- transmitting QoS information representative of said measured quality of service in the header of the messages used in set-up or teardown of the session, so that all parties to the session receive said QoS information.

19 18. (Currently Amended) An end user terminal as claimed in claim 18 17 wherein QoS information relating to signalling transactions in is included in a message used in set-up of the session.

20 19. (Currently Amended) An end user terminal as claimed in claim 18 17 wherein QoS information relating to transmission of a media data stream during the session is included in a protocol definition unit used in teardown of the session.

21 20. (Currently Amended) An end user terminal as claimed in claim 18 17 including means for processing QoS data measured within the end user terminal and/or extracted from received messages to produce displayable QoS parameters and displaying said parameters to a user via a user interface.

22 21. (Currently Amended) A computer readable medium encoded with a computer program product comprising program code elements for causing, when executed, a computer to monitor monitoring QoS using a process comprising:
establishing a session between a first session endpoint and a second session endpoint via a signaling plane;
measuring the quality of service of the communication and/or the related signalling; and
transmitting QoS information representative of said measured quality of service in the header of the messages used in set-up or teardown of the session, so that all parties to the session receive said QoS information.

23 22. (Currently Amended) A computer readable medium encoded with said computer program product as claimed in claim 22 21, wherein said computer is in the form of a server for providing a telecommunications service.

24 23. (Currently Amended) A computer readable medium encoded with said computer program products as claimed in claim 22 21 wherein QoS information relating to signalling transactions in is included in a message used in set-up of the session.

25 24. (Currently Amended) A computer readable medium encoded with said computer program product as claimed in claim 22 21 wherein QoS information relating to transmission of a media data stream during the session is included in a protocol definition unit used in teardown of the session.

26 25. (Currently Amended) A computer readable medium encoded with said computer program product as claimed in claim 22 21 including means code for processing QoS data measured within the end user terminal and/or extracted from received messages to produce displayable QoS parameters and displaying said parameters to a user via a user interface.

27 26. (Currently Amended) A process for monitoring the quality of service of a communication through a communication network, said process being executed in a proxy server and comprising the steps of: extracting QoS information representative of measured quality of service measured at one or more session endpoints from the headers of one or more messages used in set-up or teardown of a session; processing said extracted QoS data to produce displayable QoS parameters; and displaying said parameters to a user via a user interface.

28 27. (Currently Amended) A proxy server comprising means to monitor QoS by: extracting QoS information representative of measured quality of service measured at one or more session endpoints from the headers of one or more messages used in set-up or teardown of a session; processing said extracted QoS data to produce displayable QoS parameters and displaying said parameters to a user via a user interface.

29 28. (Currently Amended) A computer readable medium encoded with a computer program product comprising program code elements for causing, when executed, a computer to monitor monitoring QoS by extracting QoS information representative of measured quality of service measured at one or more session endpoints from the headers of one or more messages used in set-up or teardown of a session; processing said extracted QoS data to produce displayable QoS parameters and displaying said parameters to a user via a user interface.

30 29. (Currently Amended) Process for monitoring the quality of service of a communication through a communication network, said process being executed in a end-user terminal and comprising the steps of:
- establishing a session between a first end-user terminal and a second end-user terminal via a signaling plane using a session initiation protocol;
- monitoring the quality of service of the communication during said session;
- transmitting information representative of said quality of service during said session using said signaling plane, wherein the QoS information is transmitted within the header of a session initiation protocol message, so that all parties share the same information, and further wherein said session is used for transmitting voice services through at least a first and a second proxy and that said QoS information include a parameter representative of the time taken between one invite is transmitted to said first proxy and said proxy forwards it to said second proxy.